

Article 34
Amended.

CLAIMS

1 (Cancel)

2 (Amended). An IC card device comprising:

a first antenna for obtaining electrical power by receiving an external electromagnetic wave and rectifying;

a second antenna for transmitting and receiving data based on the electric power, the second antenna being provided independent of said first antenna;

a ring oscillation circuit including a plurality of signal inverters, wherein odd numbers of which are tandem connected in the form of a ring; and

a constant-current circuit being set to a current value smaller than electric-current ability for transistors involved in said signal inverter, said constant-current circuit being connected in series to at least one of said transistors connected supplied with a power source voltage or a reference voltage.

3 (Amended). An IC card according to claim 2, the current value is generated based on a constant voltage from a constant-voltage circuit.

4 (Amended). A communication system comprising:

an IC card incorporating therewithin a semiconductor integrated circuit, at least one antenna so as to obtain electric power by receiving an external electromagnetic wave and rectifying, the IC card transmitting and receiving data based on the electric power, a ring oscillation circuit including a plurality of signal inverters, wherein odd numbers of which are tandem connected in the form of a ring, and a constant-current circuit being set to a current value smaller than electric-current ability for transistors involved in said signal inverter, said constant-current circuit being connected in series to at least one of said transistors

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connected supplied with a power source voltage or a reference voltage; and

a card gate apparatus having a first antenna for transmitting the electromagnetic wave for the electromagnetic wave for electric power, and a second antenna for transmitting and receiving the data, the second antenna being provided independent of said first antenna.

5 ~~5~~. A communication system according to claim ³~~4~~, wherein said second antenna comprises a transmission antenna for transmitting said data and a reception antenna, which is provided independent of said transmission antenna, for receiving said data.

6. A communication system according to claim 4, wherein said second antenna is switched according to the uses for transmission and reception of the data.

7. A communication system according to any one of claims 4 to 6, wherein said card gate apparatus transmits each electromagnetic wave such that the range of distance over which the electromagnetic wave for electric power reaches is longer than that of the electromagnetic wave for transmission of data.